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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/902,708	07/12/2001	John Barry French	5721-56	9573

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EXAMINER

NGUYEN, KHANH V

ART UNIT

PAPER NUMBER

2817

DATE MAILED: 08/14/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/902,708	FRENCH ET AL. <i>[Signature]</i>
	Examiner Khanh V. Nguyen	Art Unit 2817

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 12 July 2001.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-98 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 1-20,22-57 and 60-98 is/are allowed.
- 6) Claim(s) 21,22,58 and 59 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some *
 - c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____ .
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input checked="" type="checkbox"/> Interview Summary (PTO-413) Paper No(s). <u>6</u> |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: |

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: page 20, line 24, "diode-or'd" should correctly be --diode-OR'd I--.

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Appropriate correction is required.

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: the specific *impedance values* disclosed in claims 31, 32, 68 and 69 need to be disclosed in the specification.

Claim Objections

Claims 1, 2, 7-12, 22, 27, 29, 30, 34-67, 70, 82-84, 89, 90, 96-98 are objected to because of the following informalities: for clarification purpose, the Examiner suggests the following changes:

Regarding claim 1, lines 5, 6, "the input" should correctly be --the first input--.

Regarding claim 1, line 6, "the input" should correctly be --the first input--.

Regarding claim 1, line 6, "the output" should correctly be --the first output--.

Regarding claim 1, line 7, "the output" should correctly be --the first output--.

Regarding claim 1, line 17, "the input" should correctly be --the first input--.

Regarding claim 1, line 19, last occurrence of "the" should correctly be --a--.

Regarding claim 1, line 26, "the input" should correctly be --the first input--.

Regarding claim 1, line 27, "the" should correctly be --a--.

Regarding claim 1, line 28, "the slew rate" should correctly be --a slew rate--.

Regarding claim 1, page 52, line 3, "transient signal" should correctly be
--transient power signal--.

Regarding claim 1, page 52, line 4, "transient signal" should correctly be
--transient power signal--.

*Regarding claim 2, line 12, "input compensation circuit" should correctly be
--input signal compensation block--.*

Regarding claim 2, line 14, "said input" should correctly be --said first input--.

Regarding claim 7, line 6, "input offset block" should correctly be --offset block --.

*Regarding claim 8, line 11, after *input* inserts *signal*.*

Regarding claim 8, line 13, "first amplifier" should correctly be
--first signal amplifier --.

Regarding claim 8, lines 13, 14, should "first output signal" be --first output
compensated signal--?

Regarding claim 9, line 17, delete the word "first".

*Regarding claim 10, line 26, after *unfiltered* inserts "main".*

Regarding claim 11, line 29, "the EMI" should correctly be --EMI--.

Regarding claim 12, page 54, line 1, replaces "the" with --a--.

Regarding claims 22, 59, "OR'ing" should correctly be --OR'd--.

Regarding claim 27, line 24, replaces the second occurrence of "a" with --an--.

Regarding claim 27, page 57, line 1, replaces "the" with --a--.

Regarding claim 29, line 12, replaces "the" with --a--.

Regarding claim 29, line 14, "said output" should correctly be --said first output--.

Regarding claim 29, line 16, "said output" should correctly be --said second output--.

Regarding claim 30, line 22, replaces "node" with --terminal--.

Regarding claim 30, line 24, "said input" should correctly be --said first input--.

Regarding claim 30, line 30, "the amplification factor" should correctly be --the first amplification factor--.

Regarding claim 30, lines 30, 31, "the amplification factor" should correctly be --the second amplification factor--.

Regarding claim 34, lines 14, 15, "the input" should correctly be --the first input--.

Regarding claim 34, line 15, "the input" should correctly be --the first input--.

Regarding claim 34, line 15, "the output" should correctly be --the first output--.

Regarding claim 34, line 16, "the output" should correctly be --the first output--.

Regarding claim 34, line 26, "the input" should correctly be --the first input--.

Regarding claim 34, page 59, line 1, "the input" should correctly be --the first input--.

Regarding claim 34, page 59, line 2, replaces "the" with --a--.

Regarding claim 34, page 59, line 3, replaces "the slew rate" with --a slew rate--.

Regarding claim 34, page 59, line 7, "first transient" should correctly be --first digital transient--.

Regarding claim 34, page 59, line 17, "first transient" should correctly be --first digital transient--.

Regarding claim 34, page 59, line 20, "first transient" should correctly be --first digital transient--.

Regarding claim 34, page 59, line 23, "second transient" should correctly be --second digital transient--.

Regarding claims 35-65, "the power supply circuit" should correctly be --the first power supply circuit --.

Regarding claim 35, line 2, "first transient" should correctly be --first digital transient--.

Regarding claim 36, line 7, "second transient" should correctly be --second digital transient--.

Regarding claim 38, line 18, replaces "attack" with --release--.

Regarding claim 40, line 6, "second transient" should correctly be --second digital transient--.

Regarding claim 42, "first input compensation circuit" should correctly be --first input signal compensation block--.

Regarding claim 42, line 21, after *said* inserts "*first*".

Regarding claim 47, line 13, delete the word "input".

Regarding claim 47, line 15, "the input" should correctly be --the first input--.

Regarding claim 48, line 18, after input inserts "signal".

Regarding claim 49, line 24, delete the word "first".

Regarding claim 50, page 63, line 2, after unfiltered inserts "main".

Regarding claim 51, line 4, "the switching" should correctly be --a switching--.

Regarding claim 52, line 9, replaces "the" with --a--.

Regarding claim 52, line 12, replaces "the" with --a--.

Regarding claim 53, line 19, after unfiltered inserts "main".

Regarding claim 55, line 25, after first inserts "signal".

Regarding claim 55, line 27, after first inserts "signal".

Regarding claim 55, line 30, after to inserts "a difference between". (note claim

18)

Regarding claim 58, line 9, after the inserts "first".

Regarding claim 64, line 17, replaces the second occurrence of "a" with --an--.

Regarding claim 64, line 25, replaces "the" with --a--.

Regarding claim 66, line 4, replaces "the" with --a--.

Regarding claim 66, line 6, "said output" should correctly be --said first output--.

Regarding claim 66, line 8, "said output" should correctly be --said second output--.

Regarding claim 67, line 14, replaces "node" with --terminal--.

Regarding claim 67, line 17, "said input" should correctly be --said first input--.

Regarding claim 67, line 23, "the amplification factor" should correctly be --the first amplification factor--.

Regarding claim 67, lines 23, 24, "the amplification factor" should correctly be --the second amplification factor--.

Regarding claim 70, line 6, before power inserts "total".

Regarding claim 70, line 7, after *compensated* inserts "input".

Regarding claim 70, line 7, before *power* inserts "total".

Regarding claim 70, line 13, replaces "the rate" with --a rate--.

Regarding claim 70, line 15, replaces "the" with --a--.

Regarding claim 70, line 16, before *threshold* inserts "transient".

Regarding claim 70, line 16, replaces "the maximum" with --a maximum--.

Regarding claim 70, line 17, replaces "the" with --a--.

Regarding claim 76, line 14, before amplifier inserts "signal".

Regarding claim 82, line 2, before amplifier inserts "signal".

Regarding claim 83, line 5, before amplifier inserts "signal".

Regarding claim 84, line 12, before power inserts "total".

Regarding claim 84, line 13, after *compensated* inserts "input".

Regarding claim 84, line 13, before *power* inserts "total".

Regarding claim 84, line 19, replaces "the rate" with --a rate--.

Regarding claim 84, line 22, before *threshold* inserts "transient".

Regarding claim 84, line 22, replaces "the maximum" with --a maximum--.

Regarding claim 84, line 23, replaces "the" with --a--.

Regarding claim 89, line 15, replaces "the slew rate" with --a slew rate--.

Regarding claim 90, line 18, before amplifier inserts "signal".

Regarding claim 96, line 6, before amplifier inserts "signal".

Regarding claim 97, line 7, before amplifier inserts "signal".

Regarding claim 98, lines 14, 15, "the input" should correctly be --the first input--.

Regarding claim 98, line 15, "the input" should correctly be --the first input--.

Regarding claim 98, line 15, "the output" should correctly be --the first output--.

Regarding claim 98, line 16, "the output" should correctly be --the first output--.

Regarding claim 98, line 26, "the input" should correctly be --the first input--.

Regarding claim 98, line 29, first occurrence of "the" should correctly be --a--.

Regarding claim 98, line 30, "the summer" should correctly be

--the first summer--.

Regarding claim 98, line 31, "the" should correctly be --a--.

Regarding claim 98, page 72, line 6, after the inserts "first".

Regarding claim 98, page 72, line 9, first occurrence of "the" should correctly be

--a--.

Regarding claim 98, page 72, line 10, "the summer" should correctly be

--the second summer--.

Regarding claim 98, page 72, line 14, after the inserts "first".

Regarding claim 98, page 72, line 15, "the" should correctly be --a--.

Regarding claim 98, page 72, line 16, "the slew rate" should correctly be --a slew rate--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 21, 22, 58, 59 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear which “*combining circuit*” is a pair of diodes”, since the “*combining circuit*” as stated in claim 21/58 appears to be summer (368) of Figure 4 and not a pair of diodes (360a and 360b) claimed.

Allowable Subject Matter

Claims 1-20, 22-57, 60-98 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Claims 1-20, 22-57, 60-98 are allowed over the prior art because none of the prior art disclosed or suggested showing the particular structure and/or operation recited in these claims namely:

Claims 1-20, 23-57, 60-98 call for, among other, an apparatus and method of a power amplifier comprising: an input signal compensation block (205); a power signal

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compensation block (235); a summer (237); a control circuit (216) having the connection and functions as claimed.

Claim 21, 22, 58, 59 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional reference (Takita (5,990,751); Carver (6,166,605); Lewyn (6,236,273)) shows further analogous prior art circuitry (having positive and negative power supplies).

This art is deemed relevant and should be carefully reviews before any amendment is filed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (703) 306-9058. The examiner can normally be reached from 8:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (703) 308-4909. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service at (703) 872-9317.

NKV

08/09/02



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Group 2800, Art Unit 2817